



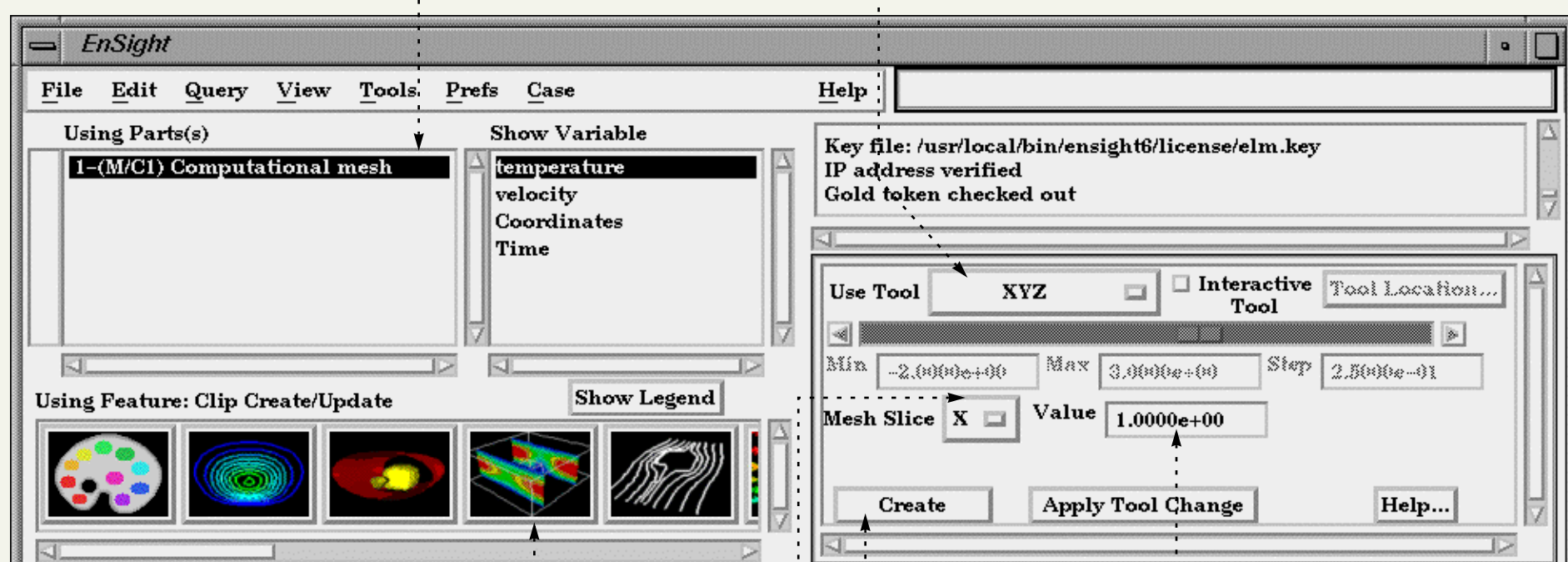
## INTRODUCTION

An XYZ clip is a 1D or 2D slice through 2D or 3D meshes (structured or unstructured). The resulting clip is a 1D or 2D mesh slice where one of the dimensions (*e.g.* X) is held constant (or fixed) while the other one or two dimensions (*e.g.* Y and Z) vary in reference to the local frame of the mesh. XYZ clips can be interactively animated throughout the range of the fixed dimension by manipulating a slider. The minimum, maximum, and step size of the range of the interactive fixed dimension can be set by the user.

## BASIC OPERATION

1. Select the parent part.

3. Select XYZ from the Use Tool pulldown.



2. Click the Clip icon.

4. Select the desired fixed dimension from the Mesh Slice pulldown.

5. Enter the value for the fixed dimension in the Value text field and press return.

6. Click Create.

Note that you can change the fixed dimension of an XYZ clip at any time (with the Mesh Slice pulldown). If you change the numeric value, remember to press return for the change to take effect.

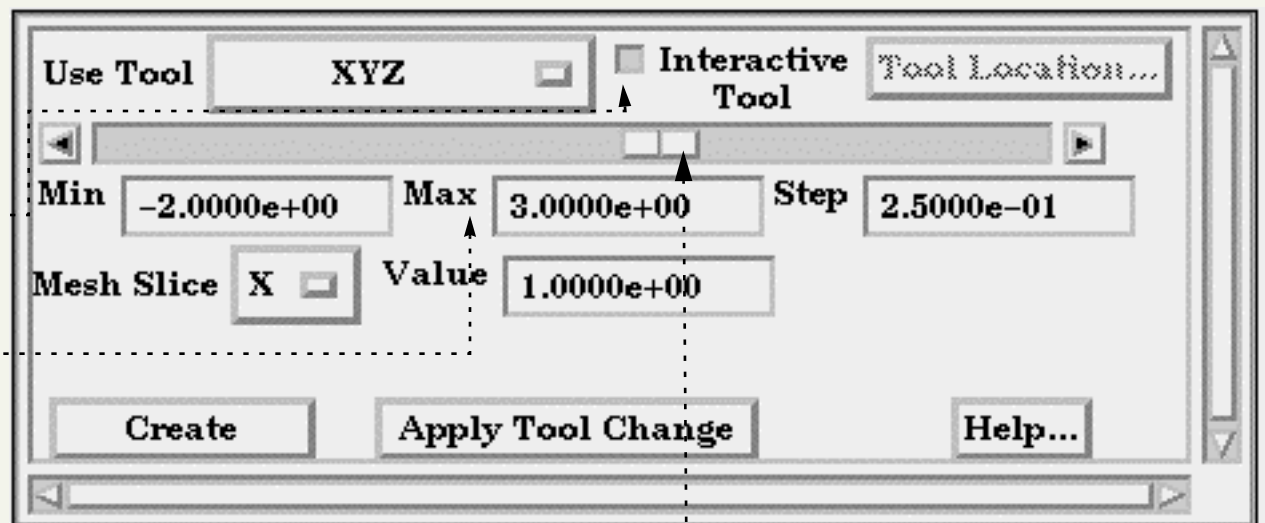


## ADVANCED USAGE

### Interactive XYZ Clipping

You can interactively sweep through the range of the fixed dimension by adjusting a slider with the mouse.

1. Double-click the desired XYZ clip part in the main parts list.
2. Click Interactive Tool to enable sweeping.
3. If desired, enter values for the Min, Max, and Step to override the defaults (remember to press return).
4. Adjust the slider with the mouse.



### Clipping Plane Animation

Although you can interactively sweep an XYZ clip through a mesh, it is sometimes desirable to have EnSight automatically calculate a series of XYZ clips for you. These can then be replayed (as fast as your graphics hardware will permit) using EnSight's Flipbook Animation facility. See [How To Create a Flipbook Animation](#) for more information.

## SEE ALSO

[Introduction to Part Creation](#), [How To Create a Flipbook Animation](#). Other clips: [How to Create Clip Lines](#), [How to Create Clip Planes](#), [How to Create Quadric Clips](#).

User Manual: [Clip Create/Update](#)